

RUST AND YOU



Rust reunites performance and robustness into a single language, making it the language of choice to replace C and C++. This one-day training was created for project managers and developers who wish to evaluate the relevance of using Rust in their future software development projects. After half a day to describe the main features of Rust, the next half-day is devoted to a collaborative workshop to gauge the pros and cons of using Rust in the context of the company, with the additional benefit of unique expertise of OCamlPro in the theory of programming languages.

INFORMATION

Price: 1000 EUR/team excl. taxes

Duration: 1 days

Practice: 50%

Public

Project Managers
Developers



Pre-requisites

Software Engineering
Programming



Pedagogical Objectives

- Understand the specificities of Rust
- Evaluate the Pros and Cons of Rust for a particular project

Langages

French
English



Result Indicators

- Mean satisfaction score: 18.5/20
- Taux de réussite: 100%

CONTACT

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TRAINERS

Arthur Carcano (Rust)

Arthur is an R&D developer at OCamlPro. Arthur obtained his PhD in statistical methods at Institut Pasteur in 2022. Arthur has been a daily user of Rust for more than 5 years, whether for numerical computations during his doctorate as much as for system tools that he develops for our projects.

Fabrice Le Fessant (Rust)

Fabrice is a former researcher in the French Computer Research Institute Inria, specialized in programming languages and distributed systems. Founder of OCamlPro, he is an expert in many programming languages, from generic ones like OCaml and Rust to dedicated ones like Solidity and Cobol. He is a former member of the OCaml Compiler Coreteam, a member of the GnuCOBOL project and has been contributing to many open-sources projects.

TRAINING PROGRAM

Introduction to Rust

- A short history of Rust
- Inspirations for Rust

The Main Features of Rust

- Functional Programmgin
- Strong Static Typing
- Polymorphism, traits, higher order
- Linear Typing, mutability and ownership

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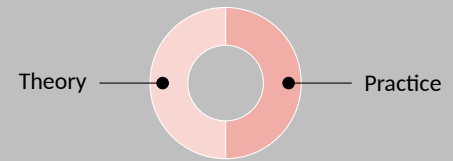
Rust and its environment

- Performance and system programming
- Rust vs other programming languages
- Rust Ecosystem
- Rust Tooling
- Formal Methods for Rust

Evaluation Workshop

- Choice of a real software development case
- Analysis of gains expected from choosing Rust
- Analysis of difficulties expected from choosing Rust
- Synthesis of Pros and Cons of choosing Rust in your Context

THEORY VS PRACTICE





EVALUATING PROGRESS

We make the progress of our trainees and its evaluation a core aspect of our courses. Indeed, guaranteeing the durable acquisition of the skills at hand is key, especially for the newer comers. To that extent, we will have trainees undergo tailored group works, exercises and hands-on practice which modalities can all be customised to your specific needs.

At the end of the course, you will have an opportunity for feedback to help us improve upon our methods. This is crucial as we believe there is always room for learning on both sides of the desk and no opinion other than yours matters more for us to do so.

CONSIDERING RQTH(RECOGNITION OF HANDICAPPED WORKER STATUS)

If people with disabilities are part of the course, do reach out to us so we can adapt the training accordingly.

PEDAGOGICAL RESSOURCES

The ressources are written by the OCamlPro team prior to the courses. Documents are generally written in english and can be translated to french if need be.

FUNDING RESORTS IN FRANCE: OPCO AND CPF

The funding of the training by the OPCO is possible as OCamlPro has received the Qualiopi certification. The two following conditions must then be attained:

- The funding must cover all expenses relative to the course.
- The funding agreement must get to us five days prior to the training session at the latest.

INTER CORPORATION TRAININGS

Les horaires pour nos formations inter-entreprises in-situ sont :
Start - 9:30AM Lunch Break - 12:00PM to 01:00PM End - 05:30PM